



Cooksville Creek Erosion Control

Client: City of Mississauga

Location: Atwater Avenue South to CNR Crossing

Services: Environmental Assessment, Remedial Works



The Jones Consulting Group was retained by the City of Mississauga to evaluate remedial measures to control erosion of Cooksville Creek from north of Atwater Street to the Canadian National Rail crossing. The project included a topographical survey, investigation and assessment of the condition of the creek. Recommendations of five alternatives to control the problems of stream downcutting, side bank erosion, and gabion basket deterioration were put forth. Jones prepared the final design and received approval from the various regulatory

agencies. Careful consideration was taken to ensure the project would follow all guidelines set out by the Environmental Assessment Act and that work on the creek would have minimal, if any, negative impact on the local aquatic and terrestrial habitat. An open house meeting was held for residents in the study area.

The chosen design is the construction of a "step-pool" channel along with invert armoring. The pools will reduce erosive velocities by enhancing the stream performance in dissipating energy and provide a natural habitat feature. Armoring the channel invert will eliminate bed downcutting. The installation of a membrane liner will protect the bedding material and the toe of the gabion baskets. This method will allow for minimal disruption to adjacent property owners. The approximate cost of these remedial works is one million dollars. Construction is anticipated to be completed in the fall of 2008.

